

Marked Up Version of the Claims

10. (Amended) An optical module comprising at least an optical fiber for introducing light outside and ~~the a semiconductor laser as claimed in Claim 1 that includes a semiconductor substrate, a core region formed on one side of the semiconductor substrate, and a clad region formed on the opposite side of the substrate not having the core region, wherein~~ the core region has a gain area length not smaller than 18 micrometers and not greater than 200 micrometers, at least one of the core region and the clad region has a stripe shape, and a stripe width is modulated in the vertical direction against the optical axis of at least the core region or the clad region and in the parallel direction with respect to the substrate surface,

the stripe width in the vicinity of the stripe ends is set narrower than a cut-off width where a lateral mode is identical, and

the lateral width in the horizontal direction has a portion within the gain region set wider than the cut-off width were the lateral mode is identical.

20. (Amended) An optical module comprising at least an optical fiber for introducing light outside and ~~the a semiconductor laser as claimed in Claim 11 that includes a semiconductor substrate, a core region formed on one side of the semiconductor substrate, and a clad region formed at least on the opposite side of the substrate not having the core region, wherein~~ the core region has a gain area length not smaller than 5 micrometers and not greater than 200 micrometers, at least one of the core region and the clad region has a stripe shape and a stripe width is modulated in the vertical direction against the optical axis of at least the core region or the clad region and in the parallel direction with respect to the substrate surface, and

the stripe width in the vicinity of the stripe ends is set narrower than a cut-off width where a lateral mode is identical, and the lateral width in the horizontal direction has a portion within the gain region set wider than the cut-off width were the lateral mode is identical.